

FATIMA JINNAH WOMEN UNIVERSITY

Department of Software Engineering

SOFTWARE CONSTRUCTION AND DEVELOPMENT LAB LAB 6

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Example 1:

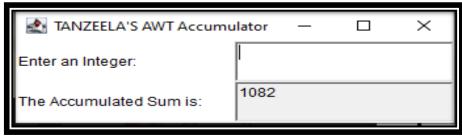
```
package awt;
import java.awt.*;
import java.awt.Event;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class AWTCounter extends Frame{
       private Label lblCount;
       private TextField tfCount;
       private Button btnCount;
       private int count = 0;
       public AWTCounter() {
              setLayout(new FlowLayout());
              lblCount=new Label("COUNTER");
              add(lblCount);
              tfCount = new TextField(count + "", 10);
              tfCount.setEditable(false);
              add(tfCount);
              btnCount = new Button("Count");
              add(btnCount);
              BtnCountListener listener = new BtnCountListener();
              btnCount.addActionListener(listener);
              setTitle("TANZEELA's AWT COUNTER");
              setSize(300,100);
              setVisible(true);
       public static void main(String[] args)
             AWTCounter app = new AWTCounter();
 private class BtnCountListener implements ActionListener{
       public void actionPerformed(ActionEvent evt) {
              ++count;
              tfCount.setText(count +"");
}
Output:
```


Example 2:

package awt;

```
import java.awt.*;
import java.awt.event.*;
public class AWTAccumulator extends Frame {
private TextField tfInput;
private TextField tfOutput;
private int sum = 0;
public AWTAccumulator() {
setLayout(new GridLayout(2, 2));
add(new Label("Enter an Integer: "));
tfInput= new TextField(10);
add(tfInput);
tfInput.addActionListener(new TFInputListener());
add(new Label("The Accumulated Sum is: "));
tfOutput = new TextField(10);
tfOutput.setEditable(false);
add(tfOutput);
setTitle("SABA'S AWT Accumulator");
setSize(350, 120);
setVisible(true);
public static void main(String[] args) {
AWTAccumulator app=new AWTAccumulator();
private class TFInputListener implements ActionListener {
public void actionPerformed(ActionEvent evt) { int
numberIn = Integer.parseInt(tfInput.getText()); sum
+= numberIn;
tfInput.setText("");
tfOutput.setText(sum + "");
}}
```

Output:



Task1:

package awt; import java.awt.*;

```
import java.awt.Event.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class AWTCounterDown extends Frame{
       private Label IblCount;
       private TextField tfCount;
       private Button btnCount;
       private int count = 88;
       public AWTCounterDown() {
               setLayout(new FlowLayout());
               lblCount=new Label("COUNTER = ");
               add(lblCount);
               tfCount = new TextField(count + "", 10);
               tfCount.setEditable(false);
               add(tfCount);
               btnCount = new Button("Count");
               add(btnCount);
               BtnCountListener listener = new
               BtnCountListener();
               btnCount.addActionListener(listener);
               setTitle("SABA AWT COUNTER");
               setSize(300,100);
               setVisible(true);
       public static void main(String[] args)
               AWTCounterDown app = new AWTCounterDown();
       private class BtnCountListener implements
ActionListener{ public void actionPerformed(ActionEvent
                         evt) {
               --count;
               tfCount.setText(count +"");
Output:
```



Task 2:

```
package awt;
import java.awt.*;
import java.awt.event.*;
public class AWTFactorial extends Frame {
       private Label lb1;
       private TextField tfInput;
       private Label 1b2;
       private TextField tfrac;
       private Button btnext;
       private int n;
AWTFactorial(){
       setLayout(new FlowLayout());
       setTitle("SabaTariq");
       lb1=new Label ("n");
       add(lb1);
       tfInput=new TextField(n+"",10);
       add(tfInput);
       lb2=new Label ("factorial : ");
       add(1b2);
       tfrac=new TextField(n+"",10);
       add(tfrac);
       btnext=new Button("Next");
       add(btnext);
       BtnCountListener listener = new BtnCountListener();
       btnext.addActionListener(listener);
       setSize(500, 100);
       setVisible(true);
public static void main(String[] args) {
AWTFactorial app=new AWTFactorial();
}
private class BtnCountListener implements ActionListener {
public void actionPerformed(ActionEvent evt) {
       int fac = 1;
int numberIn = Integer.parseInt(tfInput.getText());
for(int i=1;i<=numberIn;i++)</pre>
```

```
fac=fac*i;
}
tfrac.setText(fac + "");
}
}
```

Output:

